

Comparisons of Job Characteristics

Focus Occupation: **Electricians (47-2111)**

Associated Occupation: **Telecommunications Line Installers and Repairers (49-9052)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 67

Focus Occupation: **Electricians (47-2111)**

Associated Occupation: **Telecommunications Line Installers and Repairers (49-9052)**

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Telecommunications	3.9	14.0	10.4	<< Extensive education and/or training may be required
Customer and Personal Service	11.3	13.8	11.7	< Expanded education and/or training may be required
Computers and Electronics	8.4	10.4	10.1	0 Current knowledge level may be sufficient
Engineering and Technology	5.7	8.7	11.8	>> Current knowledge level is likely more than sufficient
Design	5.2	6.8	13.4	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 64

Focus Occupation: **Electricians (47-2111)**

Associated Occupation: **Telecommunications Line Installers and Repairers (49-9052)**

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Troubleshooting	4.5	9.8	12.3	> Skill level is likely sufficient
Operation Monitoring	6.6	9.3	10.5	> Skill level is likely sufficient
Operation and Control	5.4	9.1	8.8	0 Current skill level may be sufficient
Equipment Maintenance	3.5	8.3	10.3	> Skill level is likely sufficient
Repairing	3.4	7.1	11.6	>> Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 88			
Focus Occupation: Electricians (47-2111)					
Associated Occupation: Telecommunications Line Installers and Repairers (49-9052)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Extent Flexibility	4.8	11.1	10.4	0	Current ability level may be sufficient
Control Precision	6.6	10.7	9.5	<	Some improvement in abilities may be required
Multilimb Coordination	6.0	10.6	11.4	0	Current ability level may be sufficient
Visual Color Discrimination	6.4	9.6	12.8	>>	Current ability level is likely more than sufficient
Time Sharing	6.6	8.5	7.9	0	Current ability level may be sufficient
Gross Body Equilibrium	3.2	6.9	8.2	>	Current ability level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 91
Focus Occupation: Electricians (47-2111) Associated Occupation: Telecommunications Line Installers and Repairers (49-9052)		
Work Activities	Exclusivity of Activity	
Bend tubing or conduit	81	
Climb ladders, scaffolding, or utility or telephone poles	56	
Distinguish colors	44	
Install electrical conduit or tubing	81	
Install electrical fixtures or components	71	
Install electronic power, communication, control, or security equipment or systems	76	
Install lead-in wires to control boxes and other components	89	
Install or replace meters, regulators, or related measuring or control devices	66	
Install/string electrical or electronic cable or wiring	76	
Move or fit heavy objects	8	
Read blueprints	10	
Read tape measure	41	
Read technical drawings	7	
Repair or replace electrical wiring, circuits, fixtures, or equipment	49	
Splice electric cable	85	
Splice electric or communications trunk lines	92	
Test electrical/electronic wiring, equipment, systems or fixtures	54	

Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use interpersonal communication techniques	10
Use measuring devices in construction or extraction work	41
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 85

Focus Occupation: Electricians (47-2111)

Associated Occupation: Telecommunications Line Installers and Repairers (49-9052)

Tools and Technologies	Exclusivity
Aerial lifts	13
Business function specific software	1
Computers	1
Cutting and crimping and punching tools	3
Data management and query software	1
Earth moving machinery	11
Electrical cable and accessories	47
Electrical hardware and supplies	47
Electrical measuring and testing equipment	7
Fastener setting tools	12
Finance accounting and enterprise resource planning ERP software	2
Forming tools	2
Holding and clamping tools	3
Indicating and recording instruments	2
Ladders and scaffolding	6
Light and wave generating and measuring equipment	4
Machine tools	7
Measuring and layout tools	3
Personal communication devices	2
Power tools	2
Pulling tools	31
Soldering and brazing and welding machinery and supplies	6
Tool attachments and accessories	12
Viewing and observing instruments and accessories	4
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.